

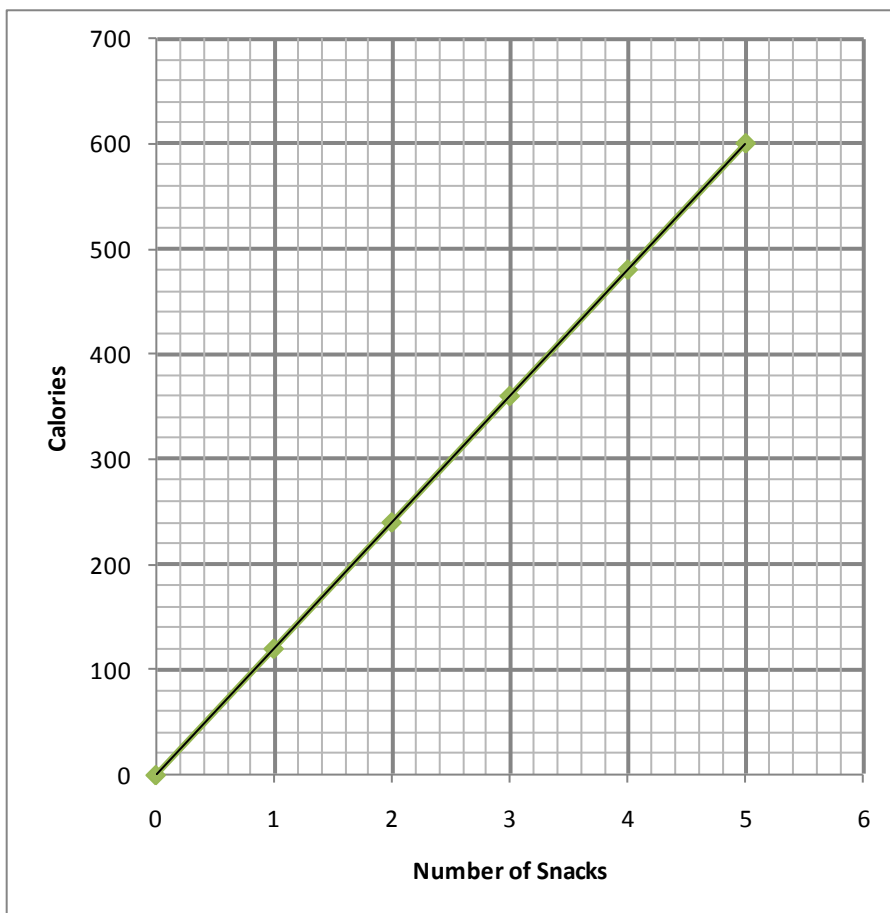
4.3b Classwork: Writing Equations from Graphs

1. Use Graph A below to fill in the table relating calories to snacks.

Number of Snacks	Calories	Ordered Pair	Write a complete sentence describing the meaning of this point on the graph.
0	0	(0, 0)	Zero snacks have zero calories.
1			
2			
3			
4			

Graph A

- Is this a proportional graph? Why or why not?
- What is the unit rate (include labels)? How do you know?
- Write the equation for calories related to number of snacks.
- Where does the unit rate show up on the graph? In the equation?

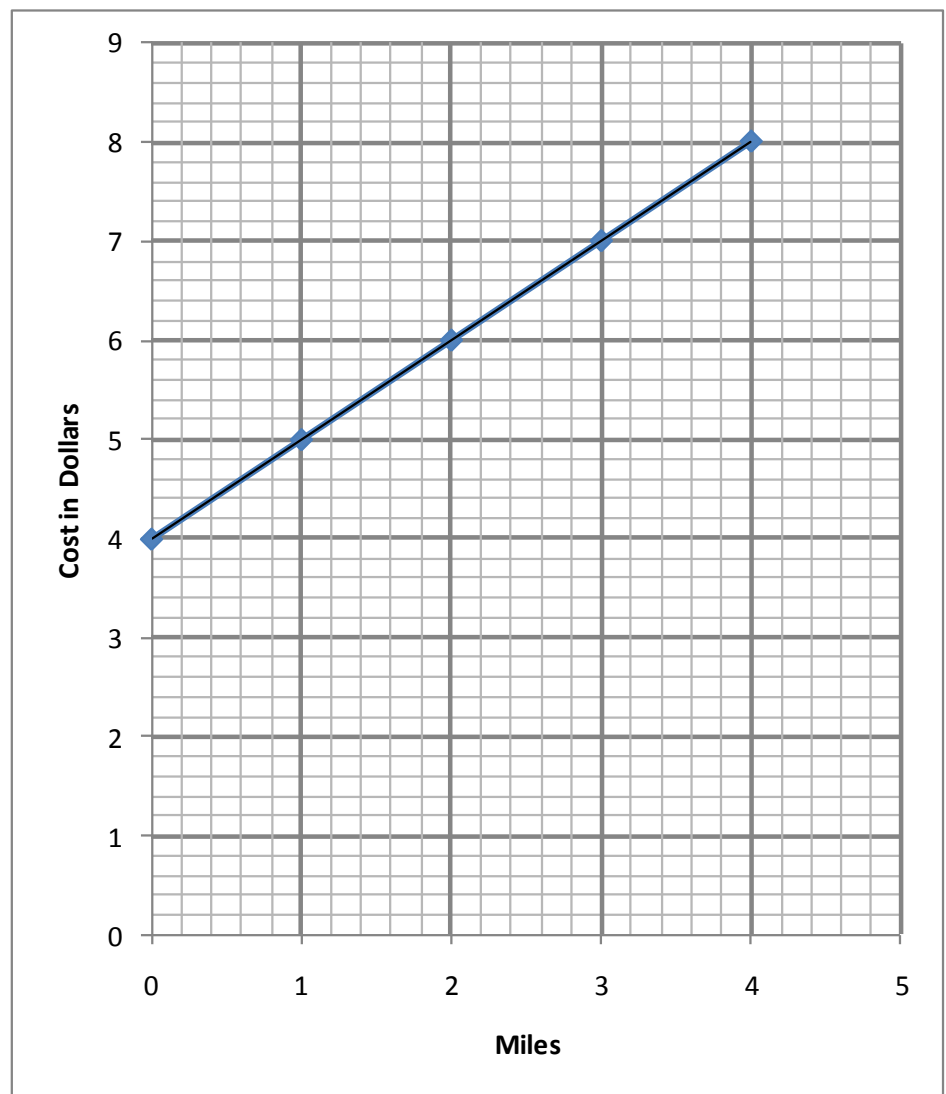


2. Use Graph B to fill in the table relating cost to cab-ride distance.

Miles	Cost	Ordered Pair	Write a complete sentence describing the meaning of this point on the graph.

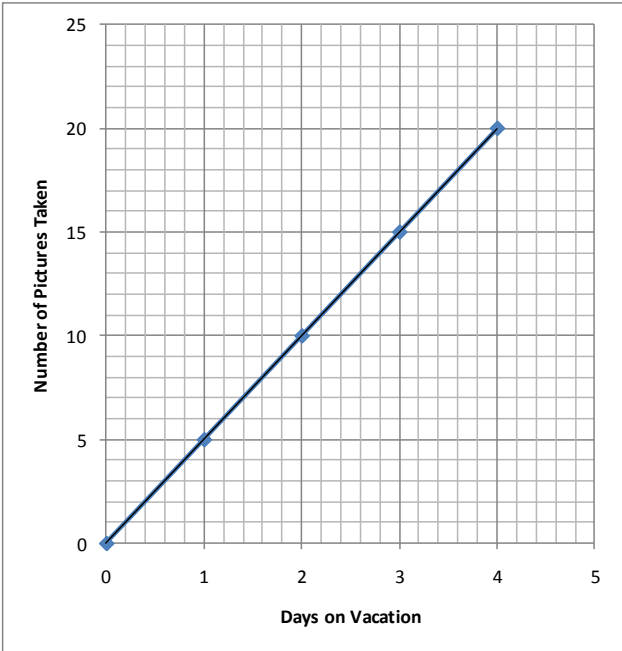
Graph B

- Is this a proportional graph? Why or why not?
- Looking at the graph, describe what's happening to the cost as miles increase.
- Is there a unit rate? If so, what is the unit rate? Is the rate consistent for the entire graph? Explain.
- Challenge: Write the equation relating cost to cab-ride distance. Explain the equation in words.



4.3b Homework: Writing Equations from Graphs

1. Graph C:



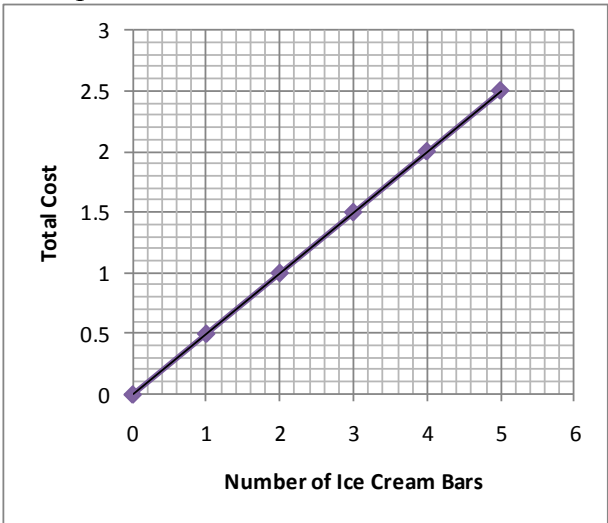
a. Is this a proportional graph? Why or why not?

b. Fill in the table above for the graph

c. What is the unit rate (include labels)?

d. Write the equation relating number of pictures taken to days on vacation.

2. Graph D:



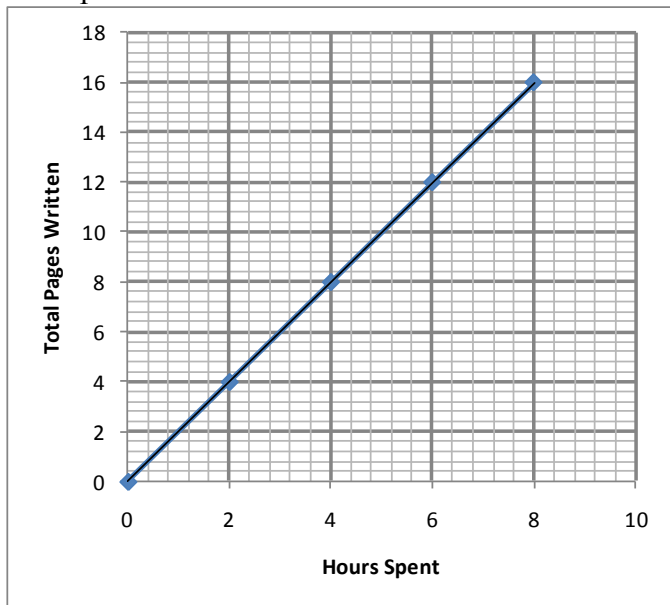
a. Is this a proportional graph? Why or why not?

b. Fill in the table for the graph

c. What is the unit rate (include labels)?

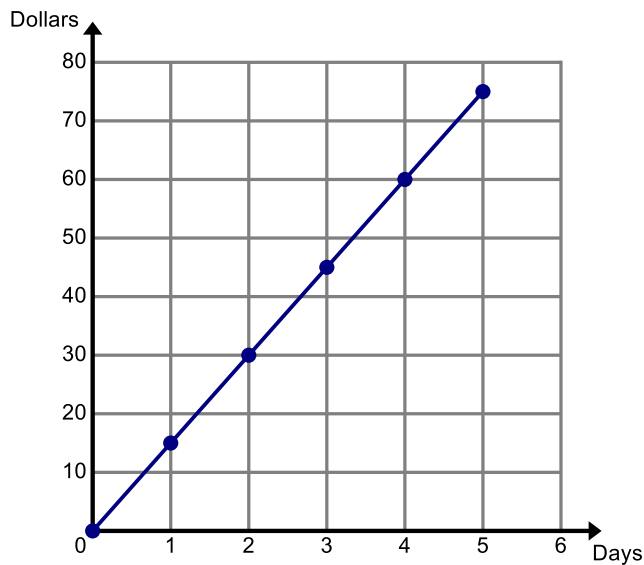
d. Write the equation relating cost to number of ice cream bars purchased.

3. Graph E:



- Is this a proportional graph? Why or why not?
- Fill in the table for the graph.
- What is the unit rate (include labels)?
- Write the equation relating pages written to hours spent.

4. Graph F:



- Is this a proportional graph? Why or why not?
- Fill in the table for the graph:
- What is the unit rate (include labels)?
- Write the equation relating dollars (spent or earned) to days.